

**METHOD FOR ENHANCING TRANSPORT OF SEMICONDUCTOR
NANOCRYSTALS ACCROSS BIOLOGICAL MEMBRANES**

ABSTRACT OF THE DISCLOSURE

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Semiconductor nanoparticle complexes comprising semiconductor nanoparticles in association with cationic polymers are described. Also described are methods for enhancing the transport of semiconductor nanoparticles across biological membranes to provide encoded cells. The methods are particularly useful in multiplex settings where a plurality of encoded cells are to be assayed. Kits comprising reagents for performing such methods are also provided.